REDACTED

From: Terrence M VanDerbosch

Sent: Wednesday, August 03, 2016 2:51 PM

To: Brian James Beller <bri>Sprian James Beller <bri>Sprian James Beller

Sprian James Bell

<gregory.menz@basf.com>

Cc: Andrew Myers <andrew.myers@basf.com>; Douglas John Stock <douglas.stock@basf.com>; Robert Scoggins

<robert.scoggins@basf.com>
Subject: RE: PK Blender Valve

Still leaks. Gem noticed that when the diaphragm was replaced, it looks like the gasket was not, so it still leaks. They are looking for a rebuild kit. They are hoping for it tomorrow.

From: Brian James Beller

Sent: Wednesday, August 03, 2016 1:44 PM

To: Leon Zavodnik < leon.zavodnik@basf.com >; Gregory A Menz < gregory.menz@basf.com >

< douglas.stock@basf.com >; Robert Scoggins < robert.scoggins@basf.com >; Terrence M VanDerbosch

<terrence.vanderbosch@basf.com>

Subject: PK Blender Valve

Guy and GEM both worked on this today. It looks like the valve is working now. They adjusted and calibrated it. We are testing it now.

Thanks

Brian Beller

Group Lead - South Production

Phone: 1 (440) 329-2561, Mobile: 1 (440) 242-8048, Email: brian.beller@basf.com Postal Address: BASF Corporation, 120 Pine Street, 44035 Elyria, United States

REDACTED

From: Rob Temkiewicz

Sent: Tuesday, August 02, 2016 5:02 PM
To: Leon Zavodnik < leon.zavodnik@basf.com>

Cc: Brian James Beller <bri>brian.beller@basf.com>; Andrew Myers <andrew.myers@basf.com>; Douglas John Stock

<douglas.stock@basf.com>; Terrence M VanDerbosch <terrence.vanderbosch@basf.com>; Guy Baetjer

<guy.baetjer@partners.basf.com>; Guy Baetjer <gbaetjer@imccontrol.com>

Subject: RE: PK Blender

Alright,

After getting a clear picture of the valve, it is a spring return. It is a Bettis CBB420-SR60.

The issue mentioned below is not the case. We will continue troubleshooting it in the morning. We did work on it last Friday though, and it seemed to be working properly. I'd like to work with an operator to understand the issue.

Rob Temkiewicz

Controls Engineer - Elyria, OH

Phone: 440-329-2417 | Tie-Line: 8-322-2417 | Mobile: 440-370-4901 E-Mail: Rob.Temkiewicz@basf.com

Postal Address: BASF Corporation, 120 Pine Street, Elyria, OH 44035, USA

150 Years

BASF - We create chemistry

From: Rob Temkiewicz

Sent: Tuesday, August 02, 2016 3:17 PM

To: Leon Zavodnik < leon.zavodnik@basf.com>

Cc: Brian James Beller < brian.beller@basf.com >; Andrew Myers < andrew.myers@basf.com >; Douglas John Stock

<douglas.stock@basf.com>; Terrence M VanDerbosch <terrence.vanderbosch@basf.com>

Subject: PK Blender

Leon,

I just called you, but you must be out. I'm letting you know that Guy from IMC isn't sure that the new valve for the PK Blender is air to open or fail to close position. We are currently looking into it, but it should not be operated until this is confirmed. He's taking a picture of the serial number and forwarding it to me to make sure it is the correct valve.

Does anyone know who purchased the valve/had it installed? I'm going to be asking around while I wait.

Rob Temkiewicz

Controls Engineer - Elyria, OH

Phone: 440-329-2417 | Tie-Line: 8-322-2417 | Mobile: 440-370-4901 E-Mail: Rob.Temkiewicz@basf.com

Postal Address: BASF Corporation, 120 Pine Street, Elyria, OH 44035, USA

150 Years BASF - We create chemistry



From: Leon Zavodnik

Sent: Monday, August 01, 2016 2:01 PM

To: Gregory A Menz <gregory.menz@basf.com>; Lee Charles McClish <lee.mcclish@basf.com>; Stefan Joseph Niewiadomski <stefan.niewiadomski@basf.com>; Guy Baetjer <guy.baetjer@partners.basf.com>; Raymond Eliott Hazlerig <raymond.hazlerig@basf.com>; Rob Temkiewicz <rob.temkiewicz@basf.com>

Cc: Andrew Myers <andrew.myers@basf.com>; Brian James Beller <bri>brian.beller@basf.com>; Douglas John Stock

<douglas.stock@basf.com>; Robert Scoggins <robert.scoggins@basf.com>; Terrence M VanDerbosch

<terrence.vanderbosch@basf.com>
Subject: PK blender & Hoist & 6 RC

We are still having issues with the PK valve. Who can look and advise on what to do as it is two weeks that we have been working on it.

Also need a fall back for the hoist on 4 Blender if we cannot fix it. Do we have another similar hoist that could be moved? If not parts need to be expedited.

I hear that 6 RC is close. Thanks for getting that done. We should plan on tuning tomorrow. If we cannot get it lit tonight please consider a high priority and call in if needed

Regards, **Leon Zavodnik** Operations Manager

Phone: +1 440 329-2592 Mobile: 440-821-6647 E-Mail: <u>leon.zavodnik@basf.com</u>

Postal Address: BASF Corporation, Elyria, 44035 Elyria, USA

150 years BASF - We create chemistry

REDACTED

From: Brian James Beller

Sent: Wednesday, July 20, 2016 9:35 PM

To: Gregory A Menz <gregory.menz@basf.com>

Cc: Leon Zavodnik <leon.zavodnik@basf.com>; Andrea Bal <andrea.bal@basf.com>; Andrew Myers <andrew.myers@basf.com>; Douglas John Stock <douglas.stock@basf.com>; Robert Scoggins robert.scoggins@basf.com; Terrence M VanDerbosch <terrence.vanderbosch@basf.com>

Subject: RE: PK blender

We tried again tonight with the PK valve and it is still not working properly. It will open but the operators are having problems with closing it.

I am also putting in a WO of the discharge chute. It look like it was hit and is not sealing properly.

Thanks

Brian Beller

Group Lead - South Production

Phone: 1 (440) 329-2561, Mobile: 1 (440) 242-8048, Email: brian.beller@basf.com Postal Address: BASF Corporation, 120 Pine Street, 44035 Elyria, United States

From: Brian James Beller

Sent: Tuesday, July 19, 2016 10:01 PM

To: Gregory A Menz <gregory.menz@basf.com>

Cc: Leon Zavodnik < ! Andrea Bal : Andrew Myers : Brian James Beller : Douglas John Stock

< douglas.stock@basf.com >; Robert Scoggins < robert.scoggins@basf.com >; Terrence M VanDerbosch

<terrence.vanderbosch@basf.com>

Subject: PK blender

FYI, We tried to start the PK tonight but the new discharge valve is not running correctly. It looks like the air lines may be hooked up backwards, when we put air to it and try to open, the valve seals closed, and we are not able to open it.

Thanks

Brian Beller

Group Lead - South Production

Phone: 1 (440) 329-2561, Mobile: 1 (440) 242-8048, Email: <u>brian.beller@basf.com</u> Postal Address: BASF Corporation, 120 Pine Street, 44035 Elyria, United States



From: Brian James Beller

Sent: Tuesday, July 19, 2016 10:01 PM

To: Gregory A Menz <gregory.menz@basf.com>

Cc: Leon Zavodnik <leon.zavodnik@basf.com>; Andrea Bal <andrea.bal@basf.com>; Andrew Myers <andrew.myers@basf.com>; Brian James Beller

douglas.stock@basf.com>; Robert Scoggins <robert.scoggins@basf.com>; Terrence M VanDerbosch <terrence.vanderbosch@basf.com>

Subject: PK blender

FYI, We tried to start the PK tonight but the new discharge valve is not running correctly. It looks like the air lines may be hooked up backwards, when we put air to it and try to open, the valve seals closed, and we are not able to open it.

Thanks

Brian Beller

Group Lead - South Production

Phone: 1 (440) 329-2561, Mobile: 1 (440) 242-8048, Email: brian.beller@basf.com Postal Address: BASF Corporation, 120 Pine Street, 44035 Elyria, United States

REDACTED

From: Brian James Beller

Sent: Saturday, June 25, 2016 6:05 PM

To: Andrea Bal <andrea.bal@basf.com>; Andrew Myers <andrew.myers@basf.com>; Arthur J Hribar <art.hribar@basf.com>; Brian James Beller <bri>degroy A Hebb <greg.hebb@basf.com>; Gregory A Menz <gregory.menz@basf.com>; Jack A Pettry <jack.pettry@basf.com>; Jefferson Wilson Lewis <jefferson.lewis@basf.com>; John E Peshek <john.e.peshek@basf.com>; John M Bodmann <john.bodmann@basf.com>; Justin Quach <justin.quach@basf.com>; Kirk J Sullenberger <kirk.sullenberger@basf.com>; Kristen Kaput <kristen.kaput@basf.com>; Leon Zavodnik <leon.zavodnik@basf.com>; Mark S Goodman <mark.goodman@basf.com>; Raymond Eliott Hazlerig <raymond.hazlerig@basf.com>; Robert E Urig <robert.urig@basf.com>; Robert Scoggins <robert.scoggins@basf.com>; Stefan Joseph Niewiadomski <stefan.niewiadomski@basf.com>; Terrence M VanDerbosch <terrence.vanderbosch@basf.com>; William Daniel Deisenroth <william.deisenroth@basf.com>; William Owen Tuttle <william.o.tuttle@basf.com>

Subject: Saturday update

#1 med continues on. We are staying well ahead of the calciner #1 Calciner- no issues

#2 MED – continues – no issues #2 Calciner is feeding – no issues

#3 MED – Cleaning continues, not able to fully staff but we are getting stuff done #3 Calciner – will start cleaning as I have people available.

#4 calciner - about 3 bags left to feed. Probably will be done Sunday afternoon sometime.

#5 Calciner – bringing temps back up- Eliott came to take a look at the probe today and does not think the issue is with the probe. Kirk has it disabled the interlock until we can get it changed out.

#6 Calciner - No issues

PK Blender- we had a leaking pump last night but maintenance switched it out for us this morning. Will run as manpower permit.

East Pfauder - the line is pretty full. We have been making batches to keep material ready for #6.

1

West Pfauder – We have been doing good, no issues with spray arm coming off. I think that we have 1 more batch to go. The solution is kind of low in tank 7- hopefully we will have enough.

Tank 6 - we washed it out and will be making up the tank tonight.

Towers – we are down and holding right now until we can get some material screened. Screeners- started screening the 406 this afternoon – we had an issue with a nitrogen regulator in the screening room-maintenance replaced it today.

TK4 screening - have been staffing about 1 shift per day.

Belt filter - staffing most shifts. No issues.

Thanks

Brian Beller

Group Lead - South Production

Phone: 1 (440) 329-2561, Mobile: 1 (440) 242-8048, Email: brian.beller@basf.com Postal Address: BASF Corporation, 120 Pine Street, 44035 Elyria, United States



CONFIDENTIAL



From: Justin Quach

Sent: Monday, June 13, 2016 10:10 AM

To: Leon Zavodnik <leon.zavodnik@basf.com>; Brian James Beller <bri>seller
dbasf.com>; Andrew Myers <andrew.myers@basf.com>; Douglas John Stock <douglas.stock@basf.com>; Terrence M VanDerbosch terrence.vanderbosch@basf.com>; Arthur J Hribar <art.hribar@basf.com>; Noemi N Trent <noemi.trent@basf.com> Subject: Pk lining

All,

The PK blender lining is coming off again already, we redid it last week right? This could cause problems with the pillmix. Thx

Regards,

Justin Quach
Process Engineer - Catalysts

Phone: +1 440 329-2501 Mobile: +1-440-822-9800 Fax: +1 440 329-2403 E-Mail: justin.quach@basf.com

Postal Address: 120 Pine St, Elyria, OH 44035, USA

150 years

BASF - We create chemistry

BASF Corporation - The Chemical Company



From: Andrea Bal [mailto:andrea.bal@basf.com]

Sent: Thursday, June 09, 2016 9:30 AM

To: Leon Zavodnik <leon.zavodnik@basf.com>

Subject: Change Management 0084-SOPS-16-0125: Submitted

Change Management 0084-SOPS-16-0125 (Removable Cap for PK Blender Discharge) has been submitted and is now available for your approval.

Please click on the link below to view the document.

CONFIDENTIAL

Change Management Form: 0084-SOPS-16-0125 Removable Cap for PK Blender Discharge

ELYRIA - South Operation-Elyria



1. Definition

ELYRIA South Operation-Elyria General Catalyst Building 9 Change Requestor Project Eng,/Mgr.) Andrea Bal/NA/BASF Target StartUp Date * O6/10/2016 Capital Project? * Ves No Change Title * Removable Cap for PK Blender Discharge Description of Change * (Project Statement – attach drawing if possible) Add removable cap to end of PK blender. Cap will be chained to the end of the PK to prevent flying off and have enough clearance for blender rotation. It will snap on and off with a clamp. Technical Basis or Reason for Change * (Justification) Cap will capture any material which leaks out of the PK discharge valve during the batch and prevent the material from dusting throughout Building 9. Previously, the sock on the PK (removed via MOC #0084-SOPS-16-0075) captuleaking material from the valve, but did a poor job. Submit To Approver * Leon Zavodnik/BASF-CATALYSTS/BASF Submitted by: Andrea Bal on 06/09/2016 09:30 AM Initiated By: Andrea Bal/NA/BASF on 06/09/2 09:26 Section 2: Assign Technical Reviewers, Approval to Engineer Section Status: Comple	O:1 +	Little 11 (Constant of the	D	Ohanna Nicalia
Change Requestor Andrea Bal/NA/BASF Type of Change * Permanent	Site *	Unit/Department *	Process Area	Change Number
Andrea Bal/NA/BASF Type of Change * Permanent Temporary Emergency?	ELYRIA	South Operation-Elyria		0084-SOPS-16-0125
Target StartUp Date * Permanent Temporary Emergency? O6/10/2016 Capital Project? * Yes No Change Title * Removable Cap for PK Blender Discharge Description of Change * (Project Statement – attach drawing if possible) Add removable cap to end of PK blender. Cap will be chained to the end of the PK to prevent flying off and have enough clearance for blender rotation. It will snap on and off with a clamp. Technical Basis or Reason for Change * (Justification) Cap will capture any material which leaks out of the PK discharge valve during the batch and prevent the material from dusting throughout Building 9. Previously, the sock on the PK (removed via MOC #0084-SOPS-16-0075) capture leaking material from the valve, but did a poor job. Submit To Approver * Leon Zavodnik/BASF-CATALYSTS/BASF Submitted by: Andrea Bal on 06/09/2016 09:30 AM Initiated By: Andrea Bal/NA/BASF on 06/09/2 09:26 ApprovalToProceed Section 2: Assign Technical Reviewers, Approval to Engineer Section Status: Comple	Change Reque	estor	Change Coordinator (P	roject Eng./Mgr.)
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	enough clears Technical Basi Cap will captu from dusting leaking mater Submit To Approver * Leon Zavodni Submitted by: ApprovalToProc	ance for blender rotation. It will snap on and off is or Reason for Change * (Justification) ure any material which leaks out of the PK disch throughout Building 9. Previously, the sock on trial from the valve, but did a poor job. Ik/BASF-CATALYSTS/BASF Andrea Bal on 06/09/2016 09:30 AM	with a clamp. arge valve during the batch a he PK (removed via MOC #0* Copy To Initiated By: Andre	and prevent the material 084-SOPS-16-0075) captured as Bal/NA/BASF on 06/09/2 09:26 Er Section Status: Complemer Notification Status: N

11/21/2016 Page 1

	al / Review Needed? ** ○ Yes ● No		
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еоп Zavodnik/E	BASF-CATALYSTS/BASF	Leon Zavodnik/BASF- Anglin/EB-NAFTA/BAS Trent/BASF-CATALYS	
oes this Change	have the Unit's Approval to Proceed? **	Comments	
pproved by: Lec	on Zavodnik on 06/09/2016 11:28 AM		
Section 3:	Risk Assessment (Impact o	on Safety & Heal	th) Section Status: Compl
elect one or mo	re methods **: 🛛 Risk Level Assessment	☐ Mode of Failure	PHA/Step Review/Other
Attach Associated	1 Documents	N/X	
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AOC Risk Note	s 0084-SOPS-16-0125 PK Cap.docx		
Risk Assessm Section I - Degre			
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11/21/2016 Page 2

		the processing sequence and consequently by this alteration introduc-
5.	a hazard?	
5. O Yes ● No	Does the change significantly imp	pact the energy balance or mass balance?
6. ○ Yes ● No	Does the change alter, affect, or l safety instrumented system (SIS)	bypass a safety device or a critical control system or component or an interlocks changed, affected, or bypassed?
7. ○ Yes ● No	Does the change necessitate sign	nificant or unique training for operators or technical personnel?
	Does the existing system handle different sequences or campaign:	reactively incompatible materials in the same equipment during s?
Significance Ru	ule: • Low O High	
		ALYSTS/BASF; Andrea Bal/NA/BASF
	JSSB Chaptint & Ant	
Section 4: F	PSSR Checklist & Act	
Section 4: F		ion Items Section Status: Work
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Section 5: Training Acknowledgement

Section Status: Working

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CONFIDENTIAL

13. Inform Personnel of Change(s) by Lotus Notes DB			Yes No				
14. Training with testing or other training means			◯ Yes ● No				
	ntractor Employees informed / Tra ASF Employees not in department		nance employe	es (Yes	No	
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Additio	onal Training Information		1. 11 : 1000 A A A A A A A A A A A A A A A A A		on a set "much "much v color"		
Contra	actors are not affected by this c	hange. Operators	will be inform	ied via th	e MOC b	oard.	
C	have reviewed and under hange and the affected p		ards as the	y apply			
	nel Notified		Signoff Da	ste **			
Brian Beller/NA/BASF Andrew Myers/NA/BASF Terrence M Vanderbosch/BASF-CATALYSTS/BASF		Pending	Pending				
Terren PSSR			Pending Pending			Section Status: V	
PSSR Sec	tion 6: PSSR Comple	tion	Pending	Signed	By & Date		
Sectillem	tion 6: PSSR Comple Description Construction and Equipment are specifications. **	etion e in accordance wi	Pending	Signed	By & Date		
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11/21/2016 Page 4

Section 7: Approval to StartUp

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StartUp Date / Time :			_
Approvals are	e required before StartUp according	to site procedures.	
7.	Approver	Approved By	1/78/8000 (00000000000000000000000000000000
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Construction		and the second seco	
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8. Temporary

Section 8: Temporary Change Management - Not Applicable

9. Change Close Out

Section 9: Change Close Out

Section 1: Change Definition	Complete
Section 2: Assign Technical Reviewers, Approval to Proceed	Complete
Section 3: Risk Assessment (Impact on Safety and Health)	Complete
Section 4: PSSR Checklist and Action Items	Working
Section 5: Training Acknowledgement	Working
Section 6: PSSR Completion	Working
Section 7: Approval to StartUp	Working
Section 8: Temporary Change Management	Not Applicable

Comments:

After completing walk-through a change, it was determined capping the blender was not effective. The risk of the cap flying off or damaging the discharge chute was greater than any dusting from the valve. (See comments.)

Cancelled by: Andrea Bal on 8/30/2016 2:48:03 PM

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Edit History

Editor	Date & Time
Andrea Bal	08/30/2016 02:48 PM
Leon Zavodnik	06/09/2016 11:28 AM
Andrea Bal	06/09/2016 11:14 AM
Andrea Bal	06/09/2016 09:48 AM
Andrea Bal	06/09/2016 09:36 AM

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11/21/2016



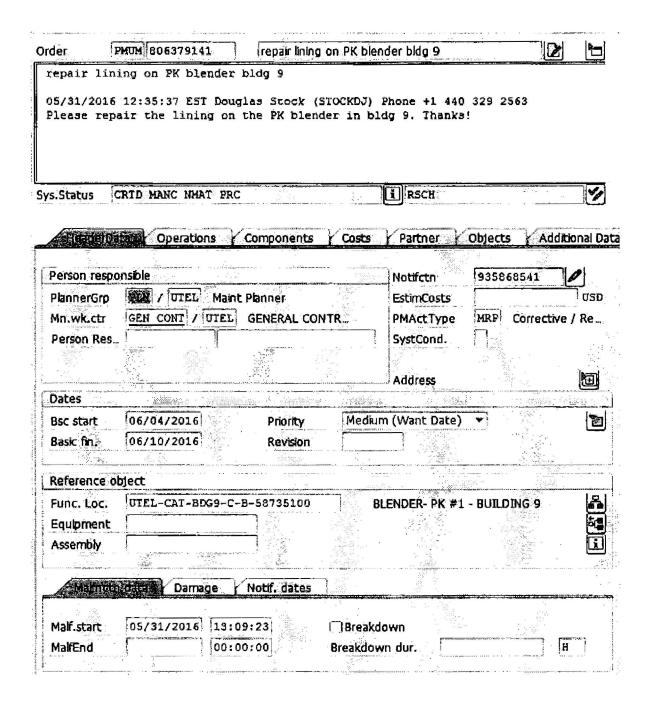
From: Stefan Joseph Niewiadomski Sent: Tuesday, May 31, 2016 1:12 PM

To: Geredco <geredco@windstream.net>; William Daniel Deisenroth <william.deisenroth@basf.com>
Cc: Douglas John Stock <douglas.stock@basf.com>; Brian James Beller <bri>brian.beller@basf.com>; Terrence M VanDerbosch <terrence.vanderbosch@basf.com>; Andrew Myers <andrew.myers@basf.com>; Leon Zavodnik <leon.zavodnik@basf.com>

Subject: RE: Shutdown (PK Blender - non-shutdown)

Hi Louise,

I will let you know on the Pfaudler inspection. In the meantime, I have a work order for the PK Blender lining. I have not received confirmation on definite availability, but I am looking into it but something for you to consider this week if possible.



Stefan Niewiadomski

Mobile: +1-440-319-2130 E-Mail: stefan.niewiadomski@basf.com Postal Address: BASF Corporation, Elyria, 44035 Elyria, USA

150 years

BASF - We create chemistry

From: Geredco [mailto:geredco@windstream.net]

Sent: Friday, May 27, 2016 1:25 PM

To: Stefan Joseph Niewiadomski < stefan.niewiadomski@basf.com; William Daniel Deisenroth

< william.deisenroth@basf.com >

Subject: RE: Shutdown

Steve

I am just checking if you decided on a date yet for your inspection?

Louise

From: Geredco [mailto:geredco@windstream.net]

Sent: Friday, May 20, 2016 1:09 PM

To: 'Stefan Joseph Niewiadomski' <stefan.niewiadomski@basf.com>; 'William Daniel Deisenroth'

<william.deisenroth@basf.com>

Subject: RE: Shutdown

Sound good, thanks.

Louise

From: Stefan Joseph Niewiadomski [mailto:stefan.niewiadomski@basf.com]

Sent: Friday, May 20, 2016 12:37 PM

To: Geredco <geredco@windstream.net>; William Daniel Deisenroth <william.deisenroth@basf.com>

Subject: RE: Shutdown

Louise,

I will look for an opening when production is down and let you know in advance.

Thanks

Steve

Stefan Niewiadomski

Mobile: +1-440-319-2130 E-Mail: stefan.niewiadomski@basf.com Postal Address: BASF Corporation, Elyria, 44035 Elyria, USA

150 years

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From: Geredco [mailto:geredco@windstream.net]

Sent: Thursday, May 19, 2016 11:00 AM

To: Stefan Joseph Niewiadomski <stefan.niewiadomski@basf.com>; William Daniel Deisenroth

<william.dejsenroth@basf.com>

Subject: RE: Shutdown

Steve,

I am sorry but due to prior commitments the week of July 11th, we are unable to come at that time.

Is it possible to reschedule your shutdown?

We have pretty much of June open except week of the 13th.

We are open the weeks of July 18 & 25th & August 1st.

Please advise if any of these would work for you.

Louise

From: Stefan Joseph Niewiadomski [mailto:stefan.niewiadomski@basf.com]

Sent: Thursday, May 19, 2016 10:29 AM

To: William Daniel Deisenroth < william.deisenroth@basf.com >; Geredco < geredco@windstream.net > Subject: RE: Shutdown

The purchase order is still good. When planning this PM, I would recommend later in the week so that we can ensure that it is blanked off prior to your arrival. I received your e-mail yesterday and slated the job for shutdown. Please let me know what day works for you and I will schedule it. Thanks Steve

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Stefan Niewiadomski

Mobile: +1-440-319-2130 E-Mail: stefan.niewiadomski@basf.com Postal Address: BASF Corporation, Elyria, 44035 Elyria, USA

150 years

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From: William Daniel Deisenroth

Sent: Thursday, May 19, 2016 10:13 AM To: Geredco < geredco@windstream.net >

Cc: Stefan Joseph Niewiadomski < stefan.niewiadomski@basf.com>

Subject: RE: Shutdown

Hi Louise,

Our shutdown is scheduled for the week of July 11th. We are in the process of developing a list of jobs that will be done during the shutdown and I know we want to do the East Pfaudler glass PM. Steve Niewiadomski is contact person heading the shutdown planning process. If you need more details, please contact Steve. His phone number is 440-329-2544

Bill

William D Deisenroth

Technical Engineering Services (TES) Manager Engineering & Maintenance

Phone: 440 329-2582, Mobile: 440-822-1220, Email: william.deisenroth@basf.com

Postal Address: BASF Corporation, 120 Pine Street, Elyria, OH 44035, United States



We create chemistry

From: Geredco [mailto:geredco@windstream.net]

Sent: Wednesday, May 18, 2016 3:02 PM

To: William Daniel Deisenroth < william.deisenroth@basf.com >

Subject: FW: Shutdown **Importance:** High

Bill

I understand Matt is no longer at BASF & you are now the contact person.

Do you have a schedule for your shutdown?

We are getting booked up & with the techs vacations,

We want to make sure we can schedule it in, please advise?

I still have PO 4928309820 in my tray. Is this still good? Louise



From: Andrea Bal

Sent: Monday, May 23, 2016 10:12 AM

To: Andrew Myers <andrew.myers@basf.com>; Douglas John Stock <douglas.stock@basf.com>; Terrence M

VanDerbosch < terrence.vanderbosch@basf.com >; Brian James Beller < brian.beller@basf.com >

Cc: Leon Zavodnik < leon.zavodnik@basf.com>

Subject: PK Blender Scrubber dP

Hi All,

After opening up the slide gate on the day tank, the dP went up from 1.2 to 1.7. Opening all of the ports/caps on the scrubber tank brought the dP up to 2.1. This seems to have been an ongoing issue as the batch sheet recorded dPs have been low, out of range. We need to reiterate to the operators that they must operate the PK with the Title V values in range, even though these aren't the official readings. Making batches with it out of range could cause serious problems if the value cannot be correct for the official reading. See attached batch sheet with recorded values.

Best Regards, Andrea

Andrea Bal

Production Engineer

Phone: +1 440-329-2549 Mobile: 440-225-4182 E-Mail: andrea.bal@basf.com Postal Address: BASF Corporation, 120 Pine St., Elyria, OH 44035, USA

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REDACTED

From: Brian James Beller

Sent: Tuesday, May 24, 2016 9:41 PM

To: Andrew Myers <andrew.myers@basf.com>; Brian James Beller <bri>brian.beller@basf.com>; Douglas John Stock <douglas.stock@basf.com>; Gregory A Menz <gregory.menz@basf.com>; Leon Zavodnik <leon.zavodnik@basf.com>; Robert Scoggins <robert.scoggins@basf.com>; Stefan Joseph Niewiadomski <stefan.niewiadomski@basf.com>; Terrence M VanDerbosch <terrence.vanderbosch@basf.com>

Cc: Andrea Bal <andrea.bal@basf.com>
Subject: PK blender solution line leaking

Greg,

Can you send Lucas to look at the solution line for the PK, it is still leaking. We locked out the system tonight and flushed out the lines so it should be ready for them in the morning.

Thanks

Brian Beiler

Group Lead - South Production

Phone: 1 (440) 329-2561, Mobile: 1 (440) 242-8048, Email: brian.beller@basf.com Postal Address: BASF Corporation, 120 Pine Street, 44035 Elyria, United States



From: Andrea Bal [mailto:andrea.bal@basf.com]

Sent: Friday, May 20, 2016 2:18 PM

To: Leon Zavodnik < leon.zavodnik@basf.com>

Subject: Change Management 0084-SOPS-16-0075: Ready For Approval

Change Management 0084-SOPS-16-0075 (Modify PK Blender Discharge Chute) is ready for your approval.

Please approve the change in the STARTUP APPROVAL tab.

Please click on the link below to view the document.

REDACTED

From: Andrew Myers

Sent: Thursday, May 12, 2016 10:41 PM

To: Andrea Bal <andrea.bal@basf.com>; Terrence M VanDerbosch <terrence.vanderbosch@basf.com>; Douglas John Stock <douglas.stock@basf.com>; Brian James Beller

Stock = Carona (Company); Douglas John Stock = Carona (Company); Douglas (Compa

<leon.zavodnik@basf.com>

Cc: Justin Quach <justin.quach@basf.com>
Subject: RE: South PK Blender Discharge Setup

I think eliminating the sock and going to something like we had talked about previously, the clamping on of a rubber boot would be the best option. We really should just try to enclose all the entire system to prevent any dusting from coming out of the system.

Regards,

Andrew Myers

Production Supervisor

Phone: 440-329-2588, Mobile: 440-420-0034, Email: andrew.myers@basf.com

Postal Address: 120 Pine St., 44035 Elyria, OH

 Π

From: Andrea Bal

Sent: Thursday, May 12, 2016 4:51 PM

To: Terrence M VanDerbosch < terrence M VanDerbosch@basf.com; Brian

James Beller < brian.beller@basf.com >; Leon Zavodnik < leon.zavodnik@basf.com >; Andrew Myers

<andrew.myers@basf.com>

Cc: Justin Quach < justin.quach@basf.com > Subject: South PK Blender Discharge Setup

Hi All,

It was mentioned that the South PK Blender Discharge was "dusting" or "leaking". I'm not sure the exact details (maybe someone can fill me in?), but it sounds as if the sock was hitting the new chute causing excessive dust..?

A few ideas to correct this dusting:

1

- -Bungle cord the sock tight so it is not loose and hitting the chute while rotating
- -Reinstall the old chute which is lower to the platform
- -Determine an alternative discharge funnel to replace the sock, possibly a removable discharge spout or intertube connection (will send pictures from Erie)

I would like to try the bungie cord solution as this seems to work on the North End blender. I'm concerned with the feasibility of having removable spout as I'm not sure if it would be dusting or how easy it is to reach the discharge from the ladder. Long term, I think the intertube could be the best solution.

Thoughts?

Best Regards, Andrea

Andrea Bal

Production Engineer

Phone: +1 440-329-2549 Mobile: 440-225-4182 E-Mail: andrea.bal@basf.com Postal Address: BASF Corporation, 120 Pine St., Elyria, OH 44035, USA

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REDACTED

From: Terrence M VanDerbosch

Sent: Saturday, April 16, 2016 10:14 PM

To: Leon Zavodnik <leon.zavodnik@basf.com>; John M Bodmann < john.bodmann@basf.com>; Kristen Kaput < kristen.kaput@basf.com>; Andrea Bal < andrea.bal@basf.com>; Justin Quach < justin.quach@basf.com>; William Grodecki < william.grodecki@basf.com>; William Owen Tuttle < william.o.tuttle@basf.com>; Brian James Beller < brian.beller@basf.com>; Andrew Myers < andrew.myers@basf.com>; Douglas John Stock < douglas.stock@basf.com>; Arthur J Hribar < art.hribar@basf.com>

Subject: Saturday notes

#1 MED running #1RC restarted today and running

#2 MED finished the 15 batches that Justin requested #2 RC restarted the feed in batch order

#3 extruder went down due to some brushes(?) That were ordered because of issues from last weekend. This is what I learned from Don Clark today. I am not an electrician, and do not understand what they do, but the issue is that the extruder starts, ramps up to speed, and immediately cuts off. I have had them try it a few times today to see if it would come back to life, but no dice.

#3 RC out of feed.

#4 RC cleaned and waiting

New pfaudler we lost vacuum overnight while trying to dry the first batch. Called everyone from maintenance. They could not figure it out since the pump would come on, and we had vacuum at the tower, but not at the pfaudler. Bill Deisenroth gave me the new contact from Lucas. He was able to send 2 guys in about 6pm tonight. They found a hole in the vacuum line on the roof. We are now back in business!

#5 RC waiting

#6 RC frustrating. The calciner lit on the first attempt yesterday. The dryer would not light. Electrician advised towards the end of the shift that it was the purge timer. I called all of maintenance, all electricians at home, then Callihan to try to get an electrician to come in. Nothing. Hopefully first thing in the morning we can get it lit.

PK blender had an issue last night. We were finally set up to run pill mix for the North end. Unfortunately, nobody was scheduled to work the weekend on the north end to empty the totes into their hoppers and return them. I had a quick talk with Abe and coordinated with Dave Hritsko, they got an operator to stay until 3am and cleaned a fourth tote, which

1

allowed us to double the batches after fighting with the dust collector to get it in range. The guys knocked out 3 batches between 7pm and 1am. We are still having issues with the dust collector, but were able to give them all that they could take. We have since switched over to bags for the south end.

Horne machine running pretty consistently

Tower 3 is loaded and running. Had an issue with the centerfix drainage line being plugged, but Evans got it fixed, and fired up last night.

Tower 6 was unloaded and a work order written to have Lucas drop the centerfix on Monday(per Kristen)

South screener running

Tk 4 running

Frustrating 24 hours, losing 3 out of the 4 top priorities. We just got the new pfaudler back, and hope to get 6 early tomorrow, but I am not sure where we are at with #3 extruder.

Stay tuned for tomorrow.

REDACTED

From: Leon Zavodnik

Sent: Wednesday, April 06, 2016 7:21 AM **To:** Paul Ayers <paul.ayers@basf.com>

Cc: Michele Barney <michele.barney@basf.com>; Abe Ahmed <abdallah.ahmed@basf.com>

Subject: One pager again

Paul,

Use this one. The last one had two added slides in the deck. Note...the name is the same as the last file

Regards, Leon Zavodnik Operations Manager

Phone: +1 440 329-2592 Mobile: 440-821-6647 E-Mail: leon.zavodnik@basf.com

Postal Address: BASF Corporation, Elyria, 44035 Elyria, USA

150 years BASF - We create chemistry

Permit Deviation - Building 9 Scrubber Elyria March 24, 2016



Incident

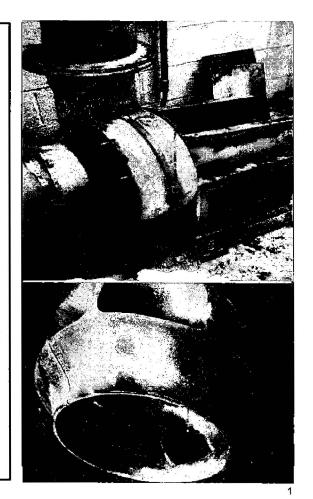
The pressure drop on the Building 9 PK scrubber was below the minimum 2 inches of pressure drop. The scrubber services the PK blender solution tank. Although the pressure drop was low there was no environmental excursion.

Root Cause

- The scrubber blower cracked which caused the pressure drop to be very low. The blower fan has been repaired.
- The line to the scrubber was also partially blocked restricting flow to the scrubber and reducing pressure drop across the column

Measures

- The unit was shut down until it can be repaired
- The scrubber has been in service for over 20 years and this is the first blower failure. The PM will be reviewed to determine if any added inspection steps are required.
- Review the frequency that the line has to be cleaned to maintain adequate suction on the tanks



CONFIDENTIAL - CCP EHS / RCMS Report

01-Apr-16

BASF_114_023147

Change Management Form: 0084-SOPS-16-0075 Modify PK Blender Discharge Chute

ELYRIA - South Operation-Elyria



1. Definition

ı				
Section 1	: Change Defi	nition		SE 500
			The second of the base of the second	Section Status: Complete
Site *	Unit/Department	* ,	Process Area	Change Number
ELYRIA	South Operation	n-Elyria	General Catalyst – Building 9	0084-SOPS-16-0075
Change Reque	stor		Change Coordinator (F	roject Eng./Mgr.)
Andrea Bal/NA	/BASF		Andrea Bal/NA/BASF	·
Type of Change	e *	- Commission of the Commission	Target StartUp Date *	
Permanent	O Temporary	Emergency?	05/23/2016	
Capital Project	?*		F " 5 . F .	
○ Yes ● No		The second secon		The second secon
Change Title *				
Madifu DK Dia	nder Discharge Chute	Secretary and the second of th	A STATE OF THE STA	to the second se
	nuer Discharge Chale		C. 05.835	
Description of C	hange * /Project State	ement – attach drawing if poss	sible)	
	<u></u>	111111111111111111111111111111111111111		
Building 9. The able to slide bathe top to control discharge soci	e chute attachment to ack into existing chut nect to a 1/4" round si k on the PK blender. S	hment to connect top of existinstall would have gasket as when not in use. The new took to be installed at the bose attached quote, drawing to be considered to be presented t	t bottom to seal to existin chute attachment would h ottom of the PK blender. E g of change, and picture of	g discharge chute and be lave a 1/4" round stock at liminate the use of the current setup.
	or Reason for Change	• 1 • 1 • 1 • 1 • 2 • 4 • 4 • 4 • 4 • 4 • 4 • 4 • 4 • 4	TO SEE THE SEE OF THE PROPERTY CONTRACTOR OF THE SECOND SE	* C. COLORD COMMANDAMENTAN INCOME CO.
This change is the blender. The reducing the d	expected to greatly r ne chute will be easy t usting from the butte	nent would seal up the gap to educing the dusting from the to disconnect and store whe rfly valve area during the Ph	is area that occurs when o en not in use. The discharg	
Leaked Mate	rial.JPG			

Copy To

Submitted by: Andrea Bal on 05/18/2016 04:37 PM

Leon Zavodnik/BASF-CATALYSTS/BASF

Initiated By: Andrea Bal/NA/BASF on 05/18/2016

04:21 PM

2. ApprovalToProceed

Submit To

Approver *

Section 2: Assign Technical Reviewers, Approval to Engineer

11/18/2016

Page 1

	view Needed? ** N/A	Customer Notification Status: I Applica
Confidential Informat	ion	
Approval / Technical	Review? ** ○ Yes ■ No	
ndividual Approval /	Review Needed? ** ○ Yes ● No	
Jnit Change Approve	3 F	Copy Additional Personnel
	F-CATALYSTS/BASF	Leon Zavodnik/BASF-CATALYSTS/BASF; Tim Anglin/EB-NAFTA/BASF; Noemi Trent/BASF-CATALYSTS/BASF; Abdallah
Does this Change ha	ve the Unit's Approval to Proceed? **	Comments
pproved by: Leon Z	avodnik on 05/18/2016 04:56 PM	
	sk Assessment (Impact of nethods **: 🛛 Risk Level Assessment	Section Status: Comp
		Section Status: Comp
	nethods.**: Risk Level Assessment	Section Status: Comp
elect one or more m	nethods **:	Section Status: Comp
Risk Assessment Section I - Degree o	nethods **:	Section Status: Comp
Risk Assessment Section I - Degree o	t f Hazard ** oes the change introduce or substantial relectrical energy? xamples: Installation / modification of 1 creasing steam supply pressure to a verses the change result in any increase in	Section Status: Comp Mode of Failure PHA/Step Review/Other ly affect a significant source of chemical, mechanical, therma 00 hp motor ssel inventory of toxic, flammable, or reactive (equivalent to a "4" terials? If so, is this a new threshold for PSM or RMP (or any
Risk Assessment Section I - Degree o	t If Hazard ** oes the change introduce or substantial relectrical energy? examples: Installation / modification of 1 or creasing steam supply pressure to a version of the change result in any increase in thing in the NFPA or HMIS systems) materials and the change regulatory requirements) covered	Section Status: Comp Mode of Failure PHA/Step Review/Other ly affect a significant source of chemical, mechanical, therma 00 hp motor ssel inventory of toxic, flammable, or reactive (equivalent to a "4" terials? If so, is this a new threshold for PSM or RMP (or any d chemicals?
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Risk Assessment Section I - Degree of the Property of the Prop	t Secuments If Hazard ** Oes the change introduce or substantial relectrical energy? Examples: Installation / modification of 1- Coreasing steam supply pressure to a vertice of the NFPA or HMIS systems) mainly in the NFPA or HMIS systems) mainly in the NFPA or HMIS systems) mainly in the NFPA or HMIS systems overed a cestablished PSM or RMP (worst case of the changed process system contains a physically unstable in quantities or contains or physically unstable in quantities or contains the changed process system contains a physically unstable in quantities or contains.	Section Status: Comp Mode of Failure

11/18/2016 Page 2

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Section II - Significance of Proposed Change ** Could the change lake the process outside previous limits of normal operation (that is, outside the worderstood and documented *safe operating enveloper)* during steady state or transient conditions? Could the change lake the process outside previous limits of normal operation (that is, outside the worderstood and documented *safe operating enveloper)* during steady state or transient conditions? Could the change lake the process outside previous limits of normal operation (that is, outside the worderstood and documented *safe operating enveloper)* during steady state or transient conditions? Could the change lake the process outside previous limits of normal operation (that is, outside the worderstood and documented *safe operating enveloper)* during steady state or transient conditions? Could the change lake the process outside previous limits of normal operation (that is, outside the worderstood and documented *safe operating enveloper)* during steady state or transient conditions? Could the change lake the process outside previous limits of normal operation (that is, outside the worderstood and documented *safe operating enveloper)* during steady state or transient conditions? Could the change lake the process of page and the process of the change re-order or alter the process of page and consequently by this alteration introd a hazerd? Control to process on the change significantly impact the energy balance or mass balance? Control to process on the change significant or unique training for operators or technical personnel? Control to process or campaigns? Significance Rule:	Hazard Rule:	● Low ○ High	2. (3.7.2947-4.74-7.44-4.44-4.44-4.44-4.44-4.44-4	ř
Could the change take the process outside previous limits of normal operation (that is, outside the we understood and documented "safe operating envelope") during steady state or transient conditions? Does the change introduce molecules not already present in the process? Are PSV's or rupture disks changed, affected, or bypassed? Does the change re-order or alter the processing sequence and consequently by this alteration introd a hazard? Does the change significantly impact the energy balance or mass balance? Does the change significantly impact the energy balance or mass balance? Does the change significantly impact the energy balance or mass balance? Does the change significantly impact the energy balance or mass balance? Does the change significantly impact the energy balance or mass balance? Does the change significantly impact the energy balance or mass balance? Does the change significantly impact the energy balance or mass balance? Does the change significantly impact the energy balance or mass balance? Does the change significantly impact the energy balance or mass balance? Does the change significantly impact the energy balance or mass balance? Does the change significantly impact the energy balance or mass balance? Does the change significantly impact the energy balance or mass balance? Does the change significantly impact the energy balance or mass balance? Does the change significantly impact the energy balance or mass balance? Does the change significantly impact the energy balance or mass balance? Does the change significantly impact the energy balance or mass balance? Does the change significantly impact the energy balance or mass balance? Does the change significantly impact the energy balance or mass balance? Does the change significantly impact the energy balance or mass balance? Does the change significantly impact the energy balance or mass balance? Does the change significantly impact the energy balance or mass balance? Does the change significantly impact the ener	Section II - Signi	ficance of Proposed Change **	× , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2" - 0 - 10 - 10 - 10 - 10 - 10 - 10 - 10
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Yes	3. ○ Yes ● No	Are PSV's or rupture disks changed, affected	i, or bypassed?	
Does the change alter, affect, or bypass a safety device or a critical control system or component or a safety instrumented system (SIS) interlocks changed, affected, or bypassed? Yes No Does the change necessitate significant or unique training for operators or technical personnel? No Boes the existing system handle reactively incompatible materials in the same equipment during different sequences or campaigns? Significance Rule: Low High RISK LEVEL ASSESSMENT: Level 1 Level 2 Level 3 Level 4 Wode of Failure Review Potential Mode of Failure Hazard to Personnel / Other Thomas Additional modes of failure were identified during the risk review Responsible Person Target Date Complete Date of the process Assign By: Andrea Bal on 05/20/2016 02:17 PM RISK LEVEL ASSESSMENT The Low Medium High Critical Process Assign By: Andrea Bal on 05/20/2016 02:17 PM Reviewers for Impact on Safety & Health Thomas Assign By: Andrea Bal on 05/20/2016 02:17 PM	4. ○ Yes ● No		sing sequence and con	sequently by this alteration introduce
Significance Rule: ■ Low	5. ○ Yes ● No	Does the change significantly impact the ene	rgy balance or mass ba	alance?
Does the existing system handle reactively incompatible materials in the same equipment during different sequences or campaigns? Significance Rule: Low High RISK LEVEL ASSESSMENT: Level 1 Level 2 Level 3 Level 4 Mode of Failure Review Potential Mode of Failure ** No additional modes of failure were identified during the risk review Item Description of Action tem Responsible Person Target Date Complete Date View Risk Level RISK LEVEL ASSESSMENT ** Low Medium High Critical Process Assign By: Andrea Bal on 05/20/2016 02:17 PM eviewers for Impact on Safety & Health** Indrea Ball/NA/BASF; Douglas Stock/NA/BASF	6. ○ Yes ● No			
Significance Rule: ● Low	7. ○ Yes ● No	Does the change necessitate significant or un	nique training for opera	tors or technical personnel?
RISK LEVEL ASSESSMENT: Level 1 Level 2 Level 3 Level 4 Mode of Failure Review Potential Mode of Failure ** No additional modes of failure were identified during the risk review Responsible Person Target Date Complete Date View Risk Level RISK LEVEL ASSESSMENT **: Low Medium High Critical Process Assign By: Andrea Bal on 05/20/2016 02:17 PM Reviewers for Impact on Safety & Health** Indrea Bal/NA/BASF; Douglas Stock/NA/BASF	8. ○ Yes ● No		compatible materials in	the same equipment during
Potential Mode of Failure ** No additional modes of failure were identified during the risk review New Risk Level	Significance R	tule: ■ Low ○ High		
RISK LEVEL ASSESSMENT **: Low	No additional n were identified review	nodes of failure n/a during the risk	er ** Needed? ** ● E ○ N	none additional
necklist	ssign By: Andre	SESSMENT **: • Low	ium O High	Critical Process
10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	neckliel			
	ı		2 6 8 8	
Section 4: PSSR Checklist & Action Items Section Status: Com	ection 4:	PSSR Checklist & Action Iten	ns 🏸	Section Status: Complet

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Page 3

CHECKLIST NAME	CHECKLIST STATUS
Pre-StartUp	Complete
Post-StartUp	Complete
Comments	s and the second
Click on the Refresh button to ensure all action items a Items To Complete Prior To StartUp	ire updated.
items to complete Prior to startop	
Items May Be Completed After StartUp	
Attachments	
Addinger	The second contract of
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Batch answer by: Andrea Bal on 5/18/2016 4:41:06 PM (22 Pre-sta Batch answer by: Andrea Bal on 5/18/2016 4:41:47 PM (10 Post-st	
Frairing	
Fraining	x = 9
Section 5: Training Acknowledgement	
occilon 5. Hamming Acknowledgement	Section Status: Comple
Click on the Refresh button to ensure all action items a	
Training needed for affected personnel	·
13. Inform Personnel of Change(s) by Lotus Notes DB	● Yes ○ No
14. Training with testing or other training means	○ Yes ● No
15. Contractor Employees informed / Trained and/or,	CONTRACTOR OF THE PROPERTY OF
BASF Employees not in department. Example, Maintenance er	Yes ■ No mployees
	Published and Administration of the Control of the
StartUp Date / Time : 05/20/2016 05:00 PM	e Plantin de la companya de la comp
Additional Training Information	
Contractors are not affected by this change. Operators will be equipment before running.	informed via the MOC board and walk-through the
	PDF .
W	[]-]
Temporary Procedure for PK Discharge Chute Modification.	docx 0084-SOPS-16-0075.pdf
Notified by: Andrea Bal on 5/31/2016 3:39:09 PM Notified by: Nancy Gallagher on 8/1/2016 9:46:01 AM	
Reminder Mail Option is: Disabled	
I have reviewed and understand the change(s) above and the effected presedures/hazards.	
change and the affected procedures/hazards a	s tney apply to my job task
Personnel Notified Sign	noff Date **
Fersonner Notined Sign	noff Date **

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Brian Beller/NA/BASF Andrew Myers/NA/BASF Douglas Stock/NA/BASF	1 Aug 2016 1 Jun 2016 31 May 2016 31 May 2016
	A CONTROL OF THE PROPERTY OF T

6. PSSR

Section 6: PSSR Completion

		Section Status: Complete
Item	Description	Signed By & Date **
Α.	Construction and Equipment are in accordance with design specifications. **	Signed YES by Andrea Bal on 5/20/2016
В.	PSSR Long Form(s) required? **	Signed NO by Andrea Bal on 5/20/2016
C.	A field verification walk of all systems has been completed. **	Signed YES by Andrea Bal on 5/20/2016
	Attachment(s)	
	PK_Chute_Modification_MOC_0084-SOPS-16-0075_PSS	R.pdf

tartUp [Date		StartUp Time
5/20/20	16	No. Sec. 10.	05:00:00 PM
No.	Walk-through Description	Comp	olete Completed By & Date
	Date (**This field is required if on B above is answered 'Yes')	PSSR Team Members (**This field is required if Question B above is answered 'Yes')	PSSR Team Members (not in DB)

7. StartupApproval

Section 7: Approval to StartUp

StartUp Date / Time : 05/20/2016 05:00 PM

Approvals are required before StartUp according to site procedures.

	Approver	Approved By	* 9
EHS			5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
TES		- Description - Color	
Maintenance	1		The second secon
Construction			
Operations		The second section of the second section is a second section of the second section sec	
Operations Other			
Other	and the same and t		

11/18/2016

Page 5

Section Status: Complete

Unit Final Approver ** Leon Zavodník/BASF-CATALYSTS/BASF

Leon Zavodnik on 05/20/2016

Approvers Notified by:

Andrea Bal on 5/20/2016 2:17:15 PM

8. Temporary

Section 8: Temporary Change Management - Not Applicable

9. Change Close Out

Section 9: Change Close Out

Section 1:	Change Definition	Complete
Section 2:	Assign Technical Reviewers, Approval to Proceed	Complete
	Risk Assessment (Impact on Safety and Health)	Complete
Section 4:	PSSR Checklist and Action Items	Complete
Section 5:	Training Acknowledgement	Complete
Section 6:	PSSR Completion	Complete
Section 7:	Approval to StartUp	Complete
Section 8:	Temporary Change Management	Not Applicable

Comments:

Closed by: Andrea Bal on 11/7/2016 11:16:30 AM

EditHistory

Edit History

Editor	Date & Time
Andrea Bal	11/07/2016 11:16 AM
Brian Beller	08/01/2016 10:01 AM
Nancy Gallagher	08/01/2016 09:46 AM
Andrew Myers	06/01/2016 08:19 AM
Terrence M Vanderbosch	05/31/2016 11:05 PM
Douglas Stock	05/31/2016 06:16 PM
Andrea Bal	05/31/2016 03:39 PM
Leon Zavodnik	05/20/2016 02:51 PM
Andrea Bal	05/20/2016 02:17 PM
Andrea Bal	05/20/2016 02:14 PM
Leon Zavodnik	05/18/2016 04:57 PM
	05/18/2016 04:44 PM

11/18/2016

Page 6

Change I	Vianagement	0084-	SOP	S-1	6-00	75
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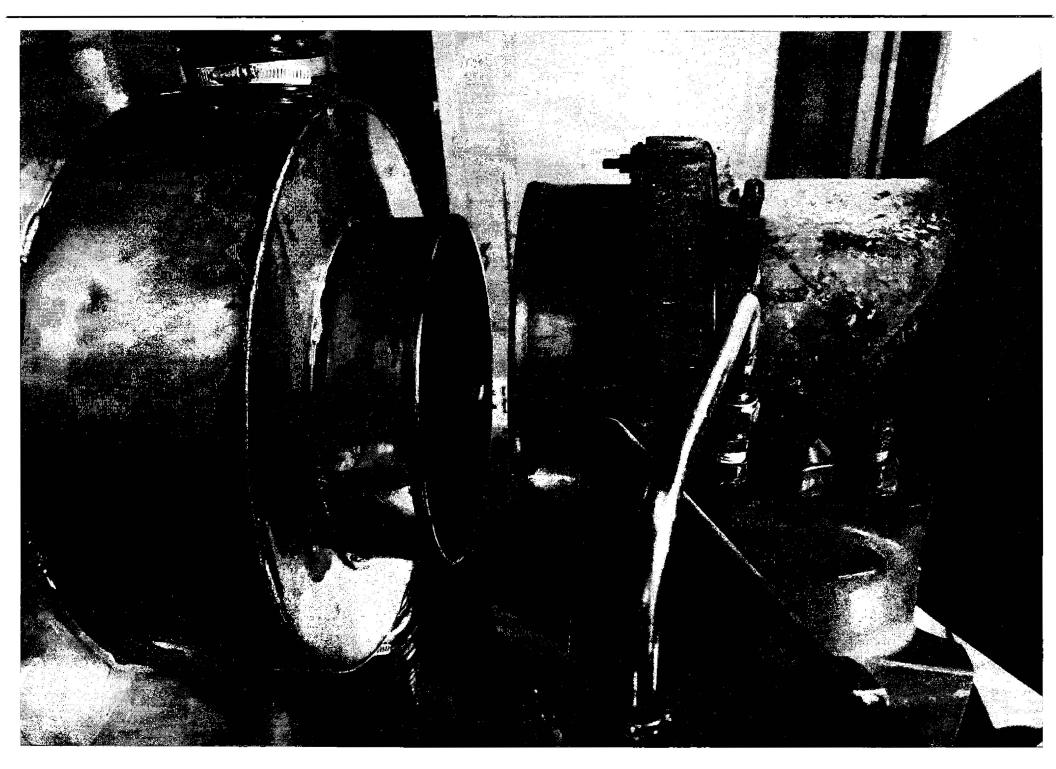
Andrea Bal

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BASF_114_023156



D.L. Page Inc.

SHEET METAL CONTRACTORS
COMMERCIAL AND INDUSTRIAL
P.O. BOX 1257 \ 1213 TAYLOR STREET \ ELYRIA, OHIO 44036-1257
PHONE (440) 365-8311 / FAX (440) 366-1456

QUOTATION

FIRM: BASF CORP. 120 PINE STREET, ELYRIA OHIO

DATE: 5/18/16

ATTN: ANDREA BAL

WE ARE PLEASED TO QUOTE ON PROVIDING MATERIAL, LABOR AND SUPERVISION FOR THE FOLLOWING PROJECT.

B-9 MODIFY PK BLENDER DISCHARGE CHUTE



RESPECTFULLY SUBMITTED,

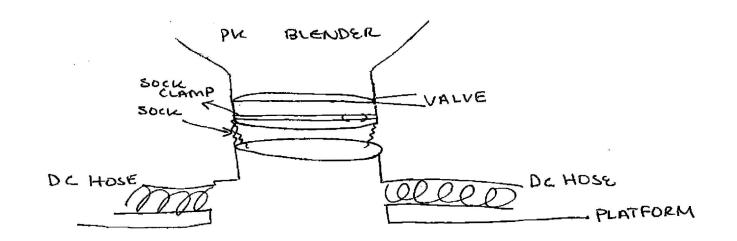
PAUL BISHOP D.L. PAGE, INC.

BASF_114_023159

PK BLENDER DISCHARGE CHUITE MODIFICATION SLEETCH

A.BAL 5/18/16

CURRENT SET-UP



PROPOSED CHANGE

- REMOVE SOLVE & SOLVE CLAMP

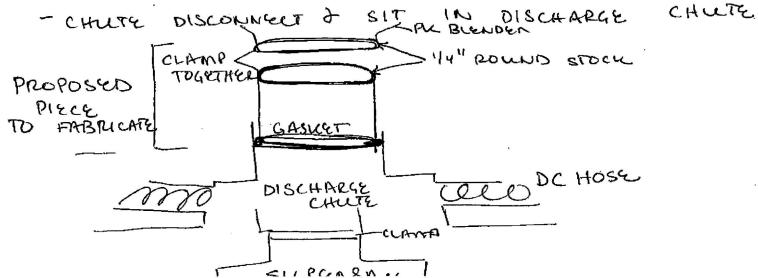
- INSTAUL '14" ROUND STOLVE ON TOP OF CHUTE &

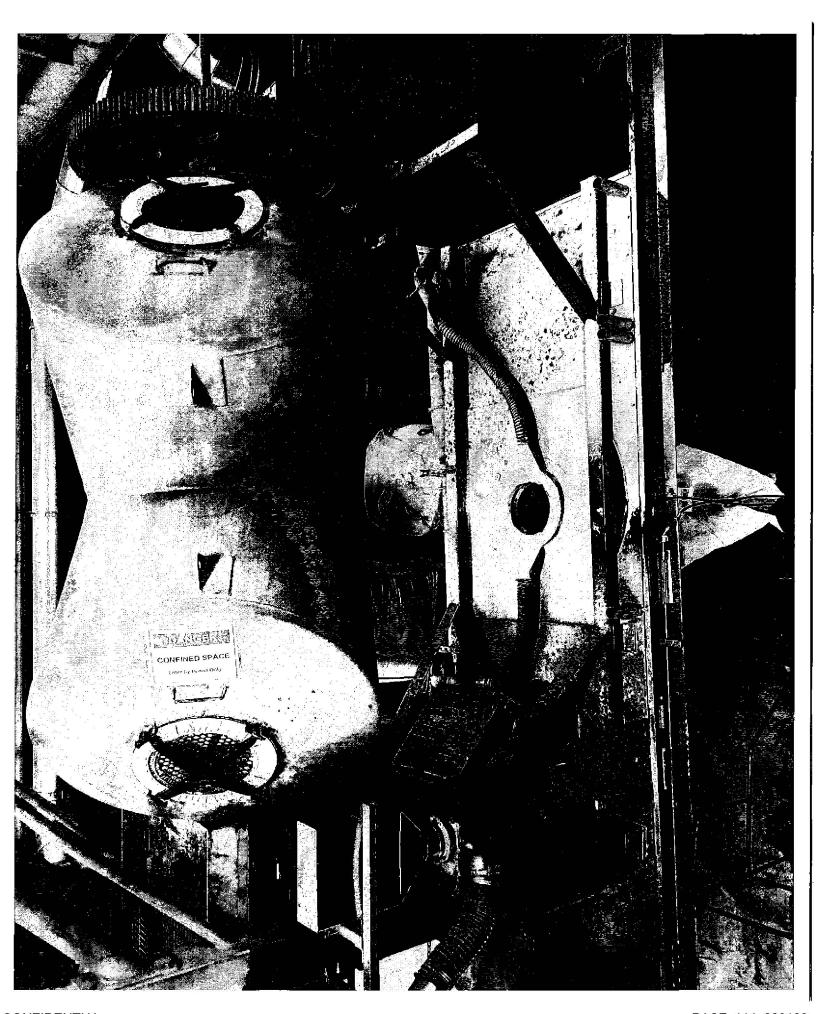
BOTTOM OF PK BLENDER TO CONNECT QUILLE CONNECT

CLAMPS

- INSTAUL 12'12" CHUTE WITH GASKET & BOTTOM

- CHUTE SUDE UP & CONNECT TO BOTTOM OF PK





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